

This patent application derives from International Patent Application PCT/US98/10804, filed on May 28, 1998, which claims priority to application Serial No. 08/864,765, filed on May 28, 1997 (now abandoned), which is a continuation-in-part of application Serial No. 08/595,387, filed on February 1, 1996 (now U.S. Patent No. 5,773,571), which is a continuation-in-part of Serial No. 08/054,363, filed on April 26, 1993 (now U.S. Patent No. 5,539,082).

In the Claims:

Claims 15, 19, 21, 22, 23, 24, 25, 32, 39, and 46 have been amended as follows.

15. A method of modulating cellular uptake and distribution of a peptide nucleic acid comprising the steps of:

- (a) derivatizing a backbone position of said peptide nucleic acid; and
- (b) conjugating the derivatized peptide nucleic acid of step (a) with a group selected from adamantyl, alkyl, lipid, steroid or an amino acid labeled with a fluorescent group.

19. The method of claim 15 wherein said group is an adamantyl group.

21. A method of modulating cellular uptake and distribution of a peptide nucleic acid comprising the steps of:

- (a) conjugating said peptide nucleic acid with a group selected from adamantyl, alkyl, lipid, steroid or an amino acid labeled with a fluorescent group; and
- (b) introducing the conjugated peptide nucleic acid of step (a) into liposomes.